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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,611	08/16/2003	James Allen Wilson	TT5590	3554
53382	7590	08/04/2005	EXAMINER PARK, ILWOO	
DENIS C. ASTARITA 7 NERVAL NEWPORT COAST, CA 92657			ART UNIT 2182	
DATE MAILED: 08/04/2005				

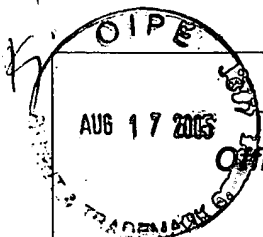
Please find below and/or attached an Office communication concerning this application or proceeding.

10 Aug 05

THIS WAS SENT TO ME IN ERROR  
APPLICANT IS JAMES ALLEN WILSON

RESPECTFULLY,

*[Signature]*



## Office Action Summary

Application No.

10/663,611

Applicant(s)

WILSON, JAMES ALLEN

Examiner

Ilwoo Park

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 16 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6, 7, 10 and 11 is/are allowed.
- 6) ☒ Claim(s) 1, 4, 5, 8, 9, 12 and 13 is/are rejected.
- 7) ☒ Claim(s) 2 and 3 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2/23/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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**DETAILED ACTION**

1. Claims 1-13 are presented for examination.

***Drawings***

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 'system 100' in page 3 of Specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
3. The drawings are objected to because the signal DMACK in figure 3 should be DMACK in order to correspond with figure 4. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures

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must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### ***Specification***

4. The disclosure is objected to because of the following informalities: the phraseology "indicted" in page 5, line 5.

Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 4, 5, 8, 9, 12, and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In contrast to claims 4, 8, and 12, figure 4 and page 7, lines 7-8 of the specification disclose when the DMA

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request signal is inactive (DMARQ = 0) and the chip enable signal is inactive ( $\overline{PCE} = 1$ ), then the DMA acknowledge signal is inactive. And to claims 5, 9, and 13, figure 4 and page 7, lines 8-9 of the specification disclose when the DMA request signal is inactive (DMARQ = 0) and the chip enable signal is active ( $\overline{PCE} = 0$ ), then the DMA acknowledge signal is not change state.

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Gama et al., US patent No. 6,418,501 B1.

As to claim 1, Gama et al teach a method for using a personal computer memory card international association (PCMCIA) controller [e.g., PC 2a in fig. 4; col. 4, lines 51-55] to communicate with an Integrated Drive Electronics (IDE) drive [e.g., drive 502 in fig. 2, memory card 1 in fig. 4] comprising:

performing a transfer between the static random access memory (SRAM) controller and the IDE drive using [col. 1, lines 30-32; col. 4, lines 62-67] PCMCIA interface signals to communicate with the IDE drive and a general purpose input/output signal to communicate with an interrupt request [fig. 7] of the IDE drive.

***Allowable Subject Matter***

7. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
8. Claims 6, 7, 10, and 11 are allowed.
9. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not teach or suggest individually or combination of generating a DMA acknowledge signal based upon a DMA request signal and a chip enable signal.

***Conclusion***

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ilwoo Park whose telephone number is (571) 272-4155. The examiner can normally be reached on Monday through Friday from 9:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571) 272-4083. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system see <http://pair-direct.uspto.gov>. Should you

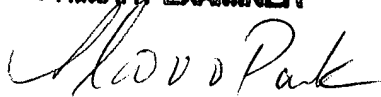
Application/Control Number: 10/663,611

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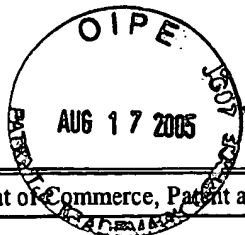
have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**ILWOO PARK  
PRIMARY EXAMINER**

A handwritten signature in cursive script that reads "Ilwoo Park".

Ilwoo Park

August 02, 2005

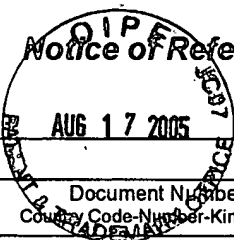


U.S. Department of Commerce, Patent and Trademark Office						Attorney Docket No.		Serial No.	
						TT5590		10/663,611	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						Applicant(s)			
(Use several sheets if necessary)						James Allen Wilson			
						Filing Date		Group	
						September 16, 2003		2186	
U.S. Patent Documents									
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA								
	AB								
	AC								
	AD								
	AE								
	AF								
	AG								
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	AK								
Foreign Patent Documents									
		Document	Date	Country	Class	Subclass	Translation		
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	AL						<input type="checkbox"/>	<input type="checkbox"/>	
	A						<input type="checkbox"/>	<input type="checkbox"/>	
	AN						<input type="checkbox"/>	<input type="checkbox"/>	
	AO								
	AP								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
<i>sp</i>	AR	Messmer, Hans-Peter "The Indispensable PC Hardware Book" Fourth Edition, Chapter 29 Hard Disk, Pages 871 - 910, June 30, 1999							
<i>sp</i>	AS	Advanced Micro Devices, Inc. "Alchemy™ Au1000™ Processor from AMD Data Book - Preliminary Information" Document Number 2000-0001, Document Revision 0.41, August 2002							
	AT								
Examiner		<i>Mark Pak</i>		Date Considered		<i>8/1/2005</i>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.									

Best Available Copy



**Notice of References Cited**



Application/Control No. 10/663,611		Applicant(s)/Patent Under Reexamination WILSON, JAMES ALLEN	
Examiner Ilwoo Park		Art Unit 2182	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,596,562	01-1997	Chen, Chih-Hsien	710/315
	B	US-6,006,295	12-1999	Jones et al.	710/62
	C	US-6,418,501	07-2002	Gama et al.	710/305
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.